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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/593,424	06/14/2000	Katsuya Irie	1081.1091/JDH	8248

21171 7590 03/23/2006

STAAS & HALSEY LLP  
SUITE 700  
1201 NEW YORK AVENUE, N.W.  
WASHINGTON, DC 20005

EXAMINER

LEWIS, DAVID LEE

ART UNIT PAPER NUMBER

2629

DATE MAILED: 03/23/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

**Office Action Summary**

Application No.

09/593,424

Applicant(s)

IRIE ET AL.

Examiner

David L. Lewis

Art Unit

2673

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

**Period for Reply**

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

**Status**

- 1) ☒ Responsive to communication(s) filed on 28 February 2006.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

**Disposition of Claims**

- 4) ☒ Claim(s) 1-6 and 11-21 is/are pending in the application.
- 4a) Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration.
- 5) ☒ Claim(s) 1-6 and 11-20 is/are allowed.
- 6) ☒ Claim(s) 21 is/are rejected.
- 7) ☐ Claim(s) \_\_\_\_\_ is/are objected to.
- 8) ☐ Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

**Application Papers**

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on \_\_\_\_\_ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.  
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

**Priority under 35 U.S.C. § 119**

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some \* c) ☐ None of:
- ☐ Certified copies of the priority documents have been received.
  - ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
  - ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

\* See the attached detailed Office action for a list of the certified copies not received.

**Attachment(s)**

- |  |   |
|--|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892)  | 4) <input type="checkbox"/> Interview Summary (PTO-413)<br>Paper No(s)/Mail Date. _____ |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948)                                   | 5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152)             |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)<br>Paper No(s)/Mail Date _____ | 6) <input type="checkbox"/> Other: _____  |

## DETAILED ACTION

### ***Claim Rejections - 35 USC § 102***

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

**1. Claim 21 is rejected under 35 U.S.C. 102(e) as being anticipated by Kuriyama et al. (6100859).**

**As in claim 21, Kuriyama et al. teaches of a method for controlling a drive of a plasma display panel, which includes an array of pixels having fluorescent substance areas of primary colors, figure 4 items 61 and (R,G,B), column 6 lines 20-30, column 8 lines 10-25, wherein a control processing portion adjusts color display based on display load by correcting the sustain frequency.**

each area discharging by an application of sustain voltage so as to emit light with brightness corresponding to a drive frequency of the sustain voltage, **column 3 lines 40-50**, wherein block or areas is set to discharge based on the detected load and set drive frequency.

the method comprising: applying, in a display period, the sustain voltage to all of the fluorescent substances areas commonly so as to display a picture according to the light emitting from the fluorescent substance areas which are addressed in an address period preceding the display period, **column 3 lines 35-65**, wherein the frequency of the sustaining pulse is set according to the measured load and calculated adjustment for the area or block to achieve balance in display;

detecting a change of a display load factor, which changes depending on a number of addressed fluorescent substance areas, to output a control signal, and controlling dynamically the drive frequency of the sustain voltage according to the control signal, **column 3 lines 35-65**

and controlling dynamically at least one of primary color signals, representing colors of pixels to be displayed, according to a brightness correction signal corresponding to the control signal, **column 3 lines 35-65, column 4 lines 5-21**, wherein for controlling the frequency of sustaining discharge area by area is accomplished by detecting the display load and appropriate correction.

so that a change of color balance of the primary colors of the fluorescent substances, which occurs according to the change of drive frequency of the sustain voltage, is corrected, **column 3 lines 35-65, column 4 lines 5-23, column 21 lines 1-15**, wherein

display data distributed unevenly within a certain sub-frame or between different sub-frames is corrected based on the measured display load.

***Allowable Subject Matter***

2. Claims 1-6 and 11-20 are allowed over the prior art of record. Claims 7-10 have been cancelled, and claim 21 is rejected.

3. The following is a statement of reasons for the indication of allowable subject matter: The Applicant's arguments submitted on 6/28/2006 are persuasive. The Examiner concedes that brightness, while related to display load, is not equivalent to display load, and therefore both Kang and Kasahara fails to teach or suggest increasing the drive frequency of sustain discharges as the monitored change in the display load factor decreases. New prior art of record Kuriyama et al. teaches of adjusting drive frequency in relation to load factor, however Kuriyama lacks a the specific relationships as found in claims 1, 2, 3, and 11. In claims 1, 2, and 3, the specific increases in drive frequency while the display load decreases as well as the independence of color adjustment is not found in Kuriyama. Further, as found in claim 11 the specific relationship between power consumption and drive frequency with respect to display load is not taught or suggested by the prior art of record. Therefore said features in combination with the other limitations of claims 1, 2, 3, and 11 are allowable over the prior art of record. New claim 21 is rejected in view of Kuriyama et al..

***Conclusion***

4. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. 6061040.

5. Any inquiry concerning this communication or earlier communications from the examiner should be directed to **David L. Lewis** whose telephone number is **(571) 272-7673**. The examiner can normally be reached on MT and THF from 8 to 5. If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Bipin Shalwala, can be reached on **(571) 272-7681**. Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the Group receptionist whose telephone number is (571)-273-8300.

6. Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

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Examiner: David L. Lewis

March 20, 2006

A handwritten signature in black ink, appearing to read "David L. Lewis", is written over the date "March 20, 2006".